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Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER 634-5131

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED JANUARY 19, 1963

INFLUENZA – Single isolations of A_2 (Asian) influenza virus have been reported from outbreaks of acute febrile illness which have been occurring in Robeson County, North Carolina, and in Baltimore, Maryland. These represent the first influenza isolates obtained from febrile disease outbreaks during the current influenza season. Reports of these outbreaks are given below.

EPIDEMIOLOGICAL REPORTS

Influenza – Robeson County, North Carolina – Follow-up Report

Type A_2 (Asian) Influenza virus has been recovered from the throat washings of one acutely ill patient in the current outbreak in Robeson County, North Carolina. Throat washings of five additional patients have yielded hemagglutinating agents which have not as yet been fully identified. Further studies on these isolates and on acute and convalescent sera are now in progress at the Respirovirus Laboratory, CDC. The general characteristics of the outbreak in Robeson County were described in last week's MMWR. (Vol. 12, No. 2, page 9.)

New cases continued to be reported from all parts of Robeson County during the past week. The outbreak appeared to have passed its peak in the county seat of Lumberton and in the neighboring communities of Fairmont and Pembroke, where local physicians noted a gradual decreasing case load. Absentee rates in most

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous week)

Disease	3rd Week			Cumulative First 3 weeks		
	Ended January 19, 1963	Ended January 20, 1962	Median 1958 - 1962	1963	1962	Median 1958 - 1962
Aseptic meningitis	32	18	---	80	39	---
Brucellosis	6	7	11	12	21	33
Diphtheria	3	5	21	16	40	64
Encephalitis, infectious	13	31	22	37	68	65
Hepatitis, infectious and serum	1,183	1,598	735	2,944	4,155	2,098
Measles	8,615	7,306	8,150	20,785	20,790	22,102
Meningococcal infections	59	52	52	159	154	168
Poliomyelitis, total	1	10	15	8	27	53
Paralytic	1	8	9	7	15	34
Nonparalytic	-	1	4	1	5	9
Unspecified	-	1	2	-	7	10
Streptococcal sore throat and Scarlet fever	9,800	8,305	---	23,467	21,871	---
Tetanus	2	1	---	13	4	---
Tularemia	3	6	---	15	26	---
Typhoid fever	5	8	11	12	15	22
Typhus fever, tick-borne, (Rocky Mountain spotted)	-	-	---	-	1	---
Rabies in Animals	54	57	76	159	171	219

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	-	Psittacosis: Utah-1, Calif.-1	6
Botulism:	-	Rabies in Man:	-
Malaria: Hawaii-4, Va.-1	5	Smallpox:	-
Plague:	-	Typhus, murine:	-

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

DECEMBER 1962 AND DECEMBER 1961

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Area December 1962 and December 1961 - Provisional Data

Reporting Area	December		Cumulative		Reporting Area	December		Cumulative	
	1962	1961	1962	1961		1962	1961	1962	1961
NEW ENGLAND	52	64	551	577	EAST SOUTH CENTRAL	96	94	1,181	1,239
Maine	2	2	10	8	Kentucky	12	17	135	186
New Hampshire	0	1	12	12	Tennessee	29	26	334	425
Vermont	1	1	2	7	Alabama	41	38	576	484
Massachusetts	32	44	341	396	Mississippi	14	13	136	144
Rhode Island	0	2	27	25					
Connecticut	17	14	159	129	WEST SOUTH CENTRAL	179	262	2,808	3,303
					Arkansas	10	17	237	285
MIDDLE ATLANTIC	549	518	6,156	5,680	Louisiana	46	105	1,086	1,422
Upstate New York	58	47	642	583	Oklahoma	19	13	160	95
New York City	277	294	3,335	3,384	Texas	104	127	1,325	1,501
Pa. (Excl. Phila.)	9	21	162	197					
Philadelphia	90	69	804	654	MOUNTAIN	28	22	371	239
New Jersey	115	87	1,213	862	Montana	1	0	8	3
					Idaho	0	0	4	9
EAST NORTH CENTRAL	201	142	1,824	1,789	Wyoming	3	0	3	2
Ohio	41	23	342	247	Colorado	7	5	72	28
Indiana	8	4	95	91	New Mexico	9	8	77	53
Downstate Illinois	12	12	126	148	Arizona	3	8	130	125
Chicago	91	75	847	927	Utah	0	0	7	5
Michigan	43	24	352	313	Nevada	5	1	70	14
Wisconsin	6	4	62	63					
					PACIFIC	186	166	1,910	1,674
WEST NORTH CENTRAL	31	35	405	396	Washington	10	6	44	86
Minnesota	1	10	57	118	Oregon	3	2	47	38
Iowa	3	2	47	18	California	173	157	1,798	1,541
Missouri	19	16	190	179	Alaska	0	0	5	4
North Dakota	1	0	5	5	Hawaii	0	1	16	5
South Dakota	0	1	30	11					
Nebraska	5	1	25	14	U. S. TOTAL	1,752	1,723	21,143	19,851
Kansas	2	5	51	51					
					TERRITORIES	39	38	513	414
SOUTH ATLANTIC	430	420	5,937	4,954	Puerto Rico	31	35	777	380
Delaware	1	3	38	32	Virgin Islands	8	3	36	34
Maryland	35	56	516	532					
District of Columbia	50	50	720	619					
Virginia	21	36	413	382					
West Virginia	3	4	47	50					
North Carolina	81	45	799	551					
South Carolina	42	54	784	620					
Georgia	74	81	988	1,049					
Florida	123	91	1,632	1,119					

Note: Monthly figures for 1961 are estimated from quarterly reports.
Cumulative Totals include revised and delayed reports through previous months.

schools serving these areas also fell from peak levels of 15-30% during the school week ending January 11 to approximately 3-8% when surveyed on January 21. During the period of peak absenteeism, higher absentee rates were generally observed in the elementary school grades, as compared to high schools serving the same area.

An increased amount of respiratory illness is still occurring in three communities located near the county's northwestern boundary. The village of Maxton reported peak absentee rates of 16 and 32% in two of its schools when surveyed on January 21. At the same time, physicians in nearby Red Springs and Parkton reported increasing case loads and were observing a number of cases among residents of adjacent Hoke and Cumberland Counties. School and industrial absenteeism has remained at normal levels in Red Springs and Parkton, however, and there is as yet no evidence of extensive spread of the epidemic beyond Robeson County.

No other outbreaks from the State of North Carolina have come to attention.

(Reported by Jacob Koomen, M.D., M.P.H., Assistant State Health Director, North Carolina State Board of Health and E. R. Hardin, M.D., County Medical Director, Robeson County, Lumberton, North Carolina.)

Influenza – Maryland

Baltimore, Maryland, for the last several weeks has been experiencing sharp outbreaks of acute febrile illness. An increasing number of visits for febrile illness has been noted at the Pediatric and Adult Out-Patient Clinics of a large hospital, while distinct outbreaks have been noted in the State Penitentiary and in several schools. An A_2 influenza virus has been isolated. The illness has been characterized by acute onset of chills, fever and headache, generally followed by myalgia and weakness, and lasting 3-4 days. A dry cough has occurred

in most cases. Sore throats and gastrointestinal complaints have not been part of the clinical picture.

Since the fifth of January, there has been an increasing number of visits to the Pediatric and Adult Out-Patient Clinics at one large hospital. The peak in number of visits occurred on January 17, with a slight fall in cases since that day. Throat washings from five children seen at the clinic yielded hemagglutinating agents in two instances. One of these was shown to be Type A_2 influenza virus.

Several schools in the Baltimore area have recently experienced abrupt outbreaks of febrile illnesses clinically compatible with influenza. One high school in South Baltimore, with 1200 students, showed the following absentee rates: January 14 – 3%; 15 – 3%; 16 – 13%; 17 – 20%; 18 – School closed; and 21 – 2%.

The Maryland State Penitentiary in Baltimore has also been experiencing a sharp outbreak. The disease is similar to that occurring in the school system, but appears to be milder. Approximately 121 cases from the 1600 population have occurred since the beginning of the year, with most cases within the last two weeks. Number of cases by week are shown below:

Week Ending	No. of Cases
12/30	0
1/6	2
1/13	9
1/20	76
1/27 (data available through 1/23)	34

Additional surveys and laboratory studies are in progress. *(Reported by John H. Janney, M.D., Acting Chief, Division of Epidemiology, Maryland Department of Health.)*

Diphthera Outbreak – Iowa

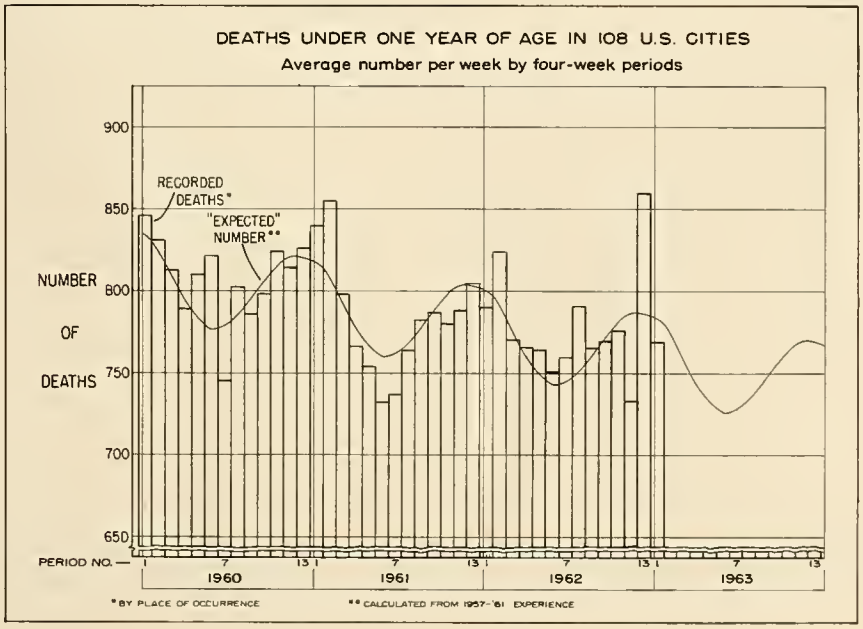
Twelve cases of diphtheria among children 2 to 14 years of age occurred in Sioux City, Iowa between September 10 and September 27, 1962. All children presented with sore throat, fever and inflamed tonsils or pharynx. All were hospitalized; one death occurred in a 10-year-old girl who had onset of sore throat and fever on September

(Continued on page 24)

DEATHS UNDER ONE YEAR OF AGE IN 108 U.S. CITIES

The weekly average number of infant deaths in 108 cities for the four-week period ending January 19 was 769 as compared with an expected 783 weekly average.

	WEEK ENDING				4 Week Total	Weekly Average
	12/29	1/5	1/12	1/19		
Observed	614	764	869	828	3,075	769
Expected	785	784	782	780	3,131	783
Excess	-171	-20	87	48	-56	-14



(See Table, page 23)

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JANUARY 20, 1962 AND JANUARY 19, 1963

Area	Poliomyelitis, total cases				Poliomyelitis, paralytic				Poliomyelitis, nonparalytic		Aseptic Meningitis	
	3rd week		Cumulative First 3 weeks		3rd week		Cumulative First 3 weeks		3rd week		3rd week	
	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962
UNITED STATES	1	10	8	27	1	8	7	15	-	1	32	18
NEW ENGLAND	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC	-	6	-	14	-	5	-	8	-	-	4	-
New York	-	6	-	14	-	5	-	8	-	-	1	-
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
Pennsylvania	-	-	-	-	-	-	-	-	-	-	3	-
EAST NORTH CENTRAL	1	-	4	1	1	-	3	1	-	-	3	2
Ohio	1	-	2	1	1	-	1	1	-	-	-	-
Indiana	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	-	-	2	-	-	-	2	-	-	-	-	-
Michigan	-	-	-	-	-	-	-	-	-	-	3	2
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
WEST NORTH CENTRAL	-	1	-	3	-	-	-	-	-	1	1	4
Minnesota	-	-	-	-	-	-	-	-	-	-	-	-
Iowa	-	1	-	1	-	-	-	-	-	1	1	-
Missouri	-	-	-	2	-	-	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	4
SOUTH ATLANTIC	-	1	-	1	-	1	-	1	-	-	2	1
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-	1	-
Virginia	-	1	-	1	-	1	-	1	-	-	-	1
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	1	-
Georgia	-	-	-	-	-	-	-	-	-	-	-	-
Florida	-	-	-	-	-	-	-	-	-	-	-	-
EAST SOUTH CENTRAL	-	-	-	1	-	-	-	1	-	-	6	3
Kentucky	-	-	-	-	-	-	-	-	-	-	4	1
Tennessee	-	-	-	-	-	-	-	-	-	-	-	-
Alabama	-	-	-	1	-	-	-	1	-	-	-	1
Mississippi	-	-	-	-	-	-	-	-	-	-	2	1
WEST SOUTH CENTRAL	-	-	2	1	-	-	2	1	-	-	2	-
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana	-	-	2	-	-	-	2	-	-	-	-	-
Oklahoma	-	-	-	-	-	-	-	-	-	-	-	-
Texas	-	-	-	1	-	-	-	1	-	-	2	-
MOUNTAIN	-	-	-	2	-	-	-	1	-	-	6	1
Montana	-	-	-	2	-	-	-	1	-	-	1	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	5	1
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	-	-	-	-	-	-	-	-	-
Utah	-	-	-	-	-	-	-	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC	-	2	2	4	-	2	2	2	-	-	8	7
Washington	-	-	-	-	-	-	-	-	-	-	-	1
Oregon	-	-	-	-	-	-	-	-	-	-	-	-
California	-	2	2	4	-	2	2	2	-	-	8	6
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	-	-	-	-	-

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JANUARY 20, 1962 AND JANUARY 19, 1963 - (Continued)

Area	Brucellosis		Diphtheria		Encephalitis, infectious		Hepatitis, infectious and serum				Measles	
							3rd week					
	3rd week	Cumulative 3 weeks	3rd week	Cumulative 3 weeks	3rd week		Under 20 yr.	20 & over	Total		3rd week	
	1963	1963	1963	1963	1963	1962	1963	1963	1963	1962	1963	1962
UNITED STATES	6	12	3	16	13	31	695	401	1,183	1,598	8,615	7,306
NEW ENGLAND	-	-	-	-	-	2	106	52	159	109	315	1,172
Maine	-	-	-	-	-	1	48	13	61	37	43	317
New Hampshire	-	-	-	-	-	-	7	6	14	15	1	52
Vermont	-	-	-	-	-	-	2	1	3	1	34	31
Massachusetts	-	-	-	-	-	-	30	20	50	45	65	523
Rhode Island	-	-	-	-	-	1	2	3	5	5	37	94
Connecticut	-	-	-	-	-	-	17	9	26	6	135	155
MIDDLE ATLANTIC	-	2	-	1	2	11	118	107	225	181	656	962
New York	-	2	-	1	1	6	63	55	118	91	338	489
New Jersey	-	-	-	-	-	-	14	22	36	41	79	322
Pennsylvania	-	-	-	-	1	5	41	30	71	49	239	151
EAST NORTH CENTRAL	-	-	-	-	3	2	107	73	185	335	4,148	1,337
Ohio	-	-	-	-	2	1	22	34	58	127	298	137
Indiana	-	-	-	-	-	-	16	3	19	36	151	80
Illinois	-	-	-	-	-	1	12	4	18	61	100	710
Michigan	-	-	-	-	1	-	50	31	81	99	1,247	230
Wisconsin	-	-	-	-	-	-	7	1	9	12	2,352	180
WEST NORTH CENTRAL	6	8	-	4	2	1	31	16	50	176	595	139
Minnesota	-	1	-	1	-	-	8	5	15	59	149	24
Iowa	6	7	-	1	-	-	3	-	3	59	272	63
Missouri	-	-	-	-	-	-	7	4	12	30	31	12
North Dakota	-	-	-	-	1	-	-	-	-	3	134	35
South Dakota	-	-	-	2	-	-	1	1	2	1	9	5
Nebraska	-	-	-	-	-	1	4	2	6	1	-	-
Kansas	-	-	-	-	1	-	8	4	12	23	NN	NN
SOUTH ATLANTIC	-	-	3	9	1	1	85	30	127	175	652	902
Delaware	-	-	-	-	-	-	-	1	1	2	15	8
Maryland	-	-	-	-	-	1	3	1	4	14	21	88
District of Columbia	-	-	-	-	-	-	-	-	6	6	1	24
Virginia	-	-	1	1	-	-	18	9	32	37	65	375
West Virginia	-	-	-	-	1	-	21	2	23	15	497	257
North Carolina	-	-	1	1	-	-	32	11	43	54	16	17
South Carolina	-	-	-	1	-	-	4	2	7	16	24	9
Georgia	-	-	1	1	-	-	2	2	4	8	-	30
Florida	-	-	-	5	-	-	5	2	7	23	13	94
EAST SOUTH CENTRAL	-	1	-	1	-	1	101	34	146	281	291	749
Kentucky	-	-	-	-	-	-	37	-	48	116	101	102
Tennessee	-	-	-	-	-	1	48	14	62	84	171	539
Alabama	-	1	-	1	-	-	12	12	24	34	17	38
Mississippi	-	-	-	-	-	-	4	8	12	47	2	70
WEST SOUTH CENTRAL	-	-	-	1	-	3	43	21	64	109	262	1,149
Arkansas	-	-	-	1	-	2	9	3	12	38	42	26
Louisiana	-	-	-	-	-	-	3	2	5	6	6	7
Oklahoma	-	-	-	-	-	-	6	3	9	4	1	11
Texas	-	-	-	-	-	1	25	13	38	61	213	1,105
MOUNTAIN	-	1	-	-	-	1	39	11	96	88	943	314
Montana	-	-	-	-	-	-	11	1	13	3	221	138
Idaho	-	-	-	-	-	-	-	-	24	21	103	19
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	-	-	-	-	-	-	11	-	24	17	244	75
New Mexico	-	-	-	-	-	1	9	6	15	12	NN	NN
Arizona	-	-	-	-	-	-	-	-	8	21	131	63
Utah	-	1	-	-	-	-	8	4	12	13	240	18
Nevada	-	-	-	-	-	-	-	-	-	1	4	1
PACIFIC	-	-	-	-	5	9	65	57	131	144	753	582
Washington	-	-	-	-	-	1	10	7	17	20	167	-
Oregon	-	-	-	-	-	-	9	-	18	15	179	123
California	-	-	-	-	5	8	46	46	92	105	281	351
Alaska	-	-	-	-	-	-	-	-	-	3	5	105
Hawaii	-	-	-	-	-	-	-	4	4	1	121	3
Puerto Rico	-	-	-	-	-	-	-	-	-	4	19	48

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 20, 1962 AND JANUARY 19, 1963 - (Continued)

Area	Meningococcal Infections		Streptococcal Sore Throat & Scarlet Fever		Tetanus	Tickborne Typhus (Rcky Mt. Spotted)	Tularemia	Typhoid Fever		Rabies in Animals		
	3rd wk.	Cumulative 3 weeks	3rd week		3rd wk.	3rd wk.	3rd wk.	3rd wk.	Cumulative 3 weeks	3rd week		Cumulative 3 weeks
	1963	1963	1963	1962	1963	1963	1963	1963	1963	1963	1962	1963
UNITED STATES....	59	159	9,800	8,305	2	-	3	5	12	54	57	159
NEW ENGLAND.....	1	14	740	436	-	-	-	-	1	-	-	-
Maine.....	-	2	81	7	-	-	-	-	-	-	-	-
New Hampshire.....	-	-	8	6	-	-	-	-	-	-	-	-
Vermont.....	-	1	7	20	-	-	-	-	-	-	-	-
Massachusetts.....	1	4	120	162	-	-	-	-	1	-	-	-
Rhode Island.....	-	3	89	23	-	-	-	-	-	-	-	-
Connecticut.....	-	4	435	218	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	7	15	526	418	-	-	-	-	3	3	2	7
New York.....	2	6	300	264	-	-	-	-	3	3	2	7
New Jersey.....	-	-	129	79	-	-	-	-	-	-	-	-
Pennsylvania.....	5	9	97	75	-	-	-	-	-	-	-	-
EAST NORTH CENTRAL..	9	24	2,202	659	-	-	-	-	-	9	3	23
Ohio.....	3	7	117	104	-	-	-	-	-	4	-	11
Indiana.....	1	4	179	108	-	-	-	-	-	2	3	3
Illinois.....	-	2	1,411	99	-	-	-	-	-	-	-	-
Michigan.....	4	6	279	206	-	-	-	-	-	2	-	7
Wisconsin.....	1	5	216	142	-	-	-	-	-	1	-	2
WEST NORTH CENTRAL..	4	7	202	328	-	-	1	-	-	9	28	37
Minnesota.....	1	1	16	43	-	-	-	-	-	-	6	11
Iowa.....	-	-	96	88	-	-	-	-	-	3	16	10
Missouri.....	1	2	3	41	-	-	-	-	-	3	-	7
North Dakota.....	1	1	72	86	-	-	-	-	-	-	-	2
South Dakota.....	-	1	1	-	-	-	-	-	-	3	6	7
Nebraska.....	1	2	-	-	-	-	-	-	-	-	-	-
Kansas.....	-	-	14	70	-	-	1	-	-	-	-	-
SOUTH ATLANTIC.....	8	36	859	795	-	-	-	1	2	9	7	28
Delaware.....	-	-	4	4	-	-	-	-	-	-	-	-
Maryland.....	-	4	22	13	-	-	-	-	-	-	-	-
Dist. of Columbia..	-	1	4	-	-	-	-	-	-	-	-	-
Virginia.....	1	8	310	223	-	-	-	-	-	1	2	11
West Virginia.....	2	5	264	109	-	-	-	-	-	3	2	6
North Carolina.....	2	6	61	55	-	-	-	1	1	-	-	2
South Carolina.....	1	2	98	216	-	-	-	-	-	-	-	-
Georgia.....	-	-	2	10	-	-	-	-	-	-	-	-
Florida.....	2	10	94	165	-	-	-	-	1	5	3	9
EAST SOUTH CENTRAL..	6	13	1,351	1,268	1	-	1	2	2	4	7	15
Kentucky.....	2	6	176	117	-	-	1	-	-	3	2	4
Tennessee.....	3	6	1,119	985	1	-	-	2	2	1	5	11
Alabama.....	1	1	15	41	-	-	-	-	-	-	-	-
Mississippi.....	-	-	41	125	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL..	9	19	871	966	-	-	1	-	2	13	6	28
Arkansas.....	2	2	-	6	-	-	-	-	1	2	-	4
Louisiana.....	1	3	8	2	-	-	1	-	-	1	-	2
Oklahoma.....	4	5	26	1	-	-	-	-	-	3	-	3
Texas.....	2	9	837	957	-	-	-	-	1	7	6	19
MOUNTAIN.....	2	6	1,811	1,803	-	-	-	-	-	1	2	1
Montana.....	-	-	138	45	-	-	-	-	-	-	-	-
Idaho.....	-	-	208	498	-	-	-	-	-	-	-	-
Wyoming.....	-	-	47	5	-	-	-	-	-	-	-	-
Colorado.....	-	2	574	411	-	-	-	-	-	-	-	-
New Mexico.....	-	-	493	415	-	-	-	-	-	-	1	-
Arizona.....	-	1	101	246	-	-	-	-	-	1	1	1
Utah.....	2	3	249	179	-	-	-	-	-	-	-	-
Nevada.....	-	-	1	4	-	-	-	-	-	-	-	-
PACIFIC.....	13	25	1,238	1,632	1	-	-	2	2	6	2	20
Washington.....	2	2	410	686	-	-	-	-	-	-	-	-
Oregon.....	1	2	14	56	-	-	-	-	-	-	-	1
California.....	9	18	787	824	1	-	-	2	2	6	2	19
Alaska.....	1	3	11	35	-	-	-	-	-	-	-	-
Hawaii.....	-	-	16	31	-	-	-	-	-	-	-	-
Puerto Rico.....	-	-	-	2	-	-	-	-	-	-	-	-

Table 4 (C). TOTAL DEATHS UNDER 1 YEAR OF AGE IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	12/29	1/5	1/12	1/19
NEW ENGLAND:				
Boston, Mass.	19	9	16	12
Bridgeport, Conn.	2	6	1	2
Cambridge, Mass.	0	0	0	2
Fall River, Mass.	2	3	1	1
Hartford, Conn.	6	11	1	7
Lowell, Mass.	0	3	0	3
Lynn, Mass.	0	0	0	0
New Bedford, Mass.	0	1	0	1
New Haven, Conn.	0	3	1	8
Providence, R.I.	2	3	3	4
Somerville, Mass.	0	0	0	0
Springfield, Mass.	0	2	0	1
Waterbury, Conn.	2	2	1	1
Worcester, Mass.	5	3	2	5
MIDDLE ATLANTIC:				
Albany, N.Y.	1	2	3	4
Allentown, Pa.	1	1	0	4
Buffalo, N.Y.	1	16	12	7
Camden, N.J.	3	3	5	4
Elizabeth, N.J.	2	1	0	3
Erie, Pa.	6	2	3	1
Jersey City, N.J.	1	7	1	4
Newark, N.J.	5	4	5	12*
New York City, N.Y.	83	106	102	81
Paterson, N.J.	7	7	1	9
Philadelphia, Pa.	7	9	16	67
Pittsburgh, Pa.	4	6	11	10
Reading, Pa.	0	1	1	1
Rochester, N.Y.	10	8	9	7
Schenectady, N.Y.	0	0	1	0
Scranton, Pa.	1	1	0	2
Syracuse, N.Y.	3	1	7	5
Trenton, N.J.	3	4	4	4
Utica, N.Y.	0	2	1	2
Yonkers, N.Y.	1	0	2	2
EAST NORTH CENTRAL:				
Akron, Ohio	4	2	2	6
Canton, Ohio	3	1	1	3
Chicago, Ill.	39	61	74	30
Cincinnati, Ohio	7	12	22	11
Cleveland, Ohio	19	12	24	10
Columbus, Ohio	7	8	8	19
Dayton, Ohio	2	2	3	4
Detroit, Mich.	19	19	21	20
Evansville, Ind.	0	2	1	4
Flint, Mich.	2	6	5	5
Fort Wayne, Ind.	2	1	2	1
Gary, Ind.	0	2	4	1
Grand Rapids, Mich.	2	1	4	8
Indianapolis, Ind.	4	8	13	11
Madison, Wis.	3	6	5	4
Milwaukee, Wis.	6	2	10	6
Peoria, Ill.	4	5	0	0
Rockford, Ill.	2	2	1	1
South Bend, Ind.	1	1	1	2
Toledo, Ohio	4	7	4	4
Youngstown, Ohio	2	2	3	2
WEST NORTH CENTRAL:				
Des Moines, Iowa	0	1	3	1
Duluth, Minn.	0	1	0	1
Kansas City, Kans.	3	2	7	3
Kansas City, Mo.	8	6	6	11
Lincoln, Nebr.	1	0	5	3
Minneapolis, Minn.	7	13	5	5
Omaha, Nebr.	5	5	5	7
St. Louis, Mo.	9	16	14	7
St. Paul, Minn.	3	4	9	5
Wichita, Kans.	1	9	7	2
SOUTH ATLANTIC:				
Atlanta, Ga.	9	18	19	10
Baltimore, Md.	13	10	26	16
Charlotte, N.C.	6	11	4	5
Jacksonville, Fla.	2	6	5	2
Miami, Fla.	6	4	2	1
Norfolk, Va.	4	5	7	10
Richmond, Va.	5	3	6	15
Savannah, Ga.	0	3	5	3
St. Petersburg, Fla.	0	3	1	3
Tampa, Fla.	1	6	7	8
Washington, D.C.	12	14	29	25
Wilmington, Del.	2	0	8	0
EAST SOUTH CENTRAL:				
Birmingham, Ala.	5	5	11	10*
Chattanooga, Tenn.	4	2	1	5
Knoxville, Tenn.	0	2	4	3
Louisville, Ky.	4	0	6	23
Memphis, Tenn.	3	13	16	14
Mobile, Ala.	5	8	3	5
Montgomery, Ala.	2	4	4	5
Nashville, Tenn.	1	10	8	8
WEST SOUTH CENTRAL:				
Austin, Tex.	1	5	6	4
Baton Rouge, La.	4	0	0	2
Corpus Christi, Tex.	2	5	5	4
Dallas, Tex.	11	13	17	12
El Paso, Tex.	8	7	12	7
Fort Worth, Tex.	5	8	6	12
Houston, Tex.	11	21	16	8
Little Rock, Ark.	2	4	6	4
New Orleans, La.	20	14	23	12
Oklahoma City, Okla.	3	9	5	5
San Antonio, Tex.	8	12	12	11
Shreveport, La.	5	5	7	1
Tulsa, Okla.	6	1	7	7
MOUNTAIN:				
Albuquerque, N. Mex.	7	6	7	6
Colorado Springs, Colo.	0	0	1	5
Denver, Colo.	11	9	9	15
Ogden, Utah	1	0	0	1
Phoenix, Ariz.	6	8	9	6
Pueblo, Colo.	4	3	4	2
Salt Lake City, Utah	6	3	3	11
Tucson, Ariz.	1	5	0	2
PACIFIC:				
Berkeley, Calif.	4	0	0	0
Fresno, Calif.	4	5	3	3*
Glendale, Calif.	2	3	5	0
Honolulu, Hawaii	1	4	9	6
Long Beach, Calif.	3	8	5	2
Los Angeles, Calif.	28	34	27	37
Oakland, Calif.	8	2	11	1
Pasadena, Calif.	0	0	5	1
Portland, Oreg.	4	3	3	5*
Sacramento, Calif.	0	6	3	4*
San Diego, Calif.	6	3	16	8*
San Francisco, Calif.	7	7	9	5
San Jose, Calif.	4	4	2	3
Seattle, Wash.	6	10	6	6*
Spokane, Wash.	4	2	2	1
Tacoma, Wash.	2	3	3	1*
San Juan, P.R.	1	2	3	2

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages	12,632
4(B) Pneumonia-Influenza Deaths, all ages	633
4(C) Total Deaths under 1 Year of Age	828
4(D) Total Deaths, Persons 65 years and over	7,203

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10 and who subsequently developed respiratory and renal difficulties; she died on September 21. Cultures from all cases were reported positive for *C. diphtheriae* toxigenic gravis strains.

Five of the 12 cases had received no diphtheria vaccination while the immunizations of three others were considered inadequate. An immunization survey approximately four months before the outbreak showed that 91 percent of Sioux City public school children through the sixth grade had received a diphtheria series or booster within the past 5 years.

All cases occurred in students or siblings of students attending a junior high school or an elementary school which sends its students to the junior high. Cultures of siblings of cases at the junior high school revealed carriers at a second elementary school. Throat culture surveys of the junior high and the two grade schools were carried out between September 26 and September 28. Twelve hundred and fifty students and teachers at these schools were cultured. A total of 33 positives (2.6%) were found in the three schools. Carriers were found in each of the nine classrooms in which cases of diphtheria had occurred. In addition, there were 19 classrooms of approximately 25 students each in which one or more carriers were found while 24 classrooms yielded no positive cultures. An additional 1986 throat cultures were taken from children in three other Sioux City schools shortly after the initial school survey. These three schools had had no cases of diphtheria reported. No positive cultures were found among the 1986 throat cultures.

Contacts of cases and carriers were cultured and observed. Fifteen additional carriers were found in this way among families of cases and carriers. For all carriers, therapy was instituted as soon as possible after a positive culture report and consisted in most instances of a course of penicillin. Known carriers were placed under quarantine until two successive cultures at least 24 hours apart were negative. The families of the carriers were restricted in their activities while contacts of the carriers were permitted full activity but kept under surveillance until culture reports were returned.

Further investigation failed to reveal the original source of the outbreak.

(Reported by Dr. Ralph Heeren, Deputy Commissioner of Public Health, Iowa State Department of Health; Mr. T. E. Corrothers, Director, Sioux City Health Department; Dr. William Hausler, Jr., Assistant Director, State Health Department Hygienic Laboratory; and a team from the Communicable Disease Center.)

INTERNATIONAL NOTES – QUARANTINE MEASURES

No additional pertinent information or changes.

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Notes: These provisional data are based on weekly telegrams to the Communicable Disease Center by the individual State health departments.

Symbols: --- Data not available
- Quantity zero

Procedures for construction of various mortality curves may be obtained from Statistics Section, Communicable Disease Center, Public Health Service, U. S. Department of Health, Education, and Welfare, Atlanta 22, Georgia.

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